Original Image | Noisy Image | Median Denoised | Wavelet Denoised
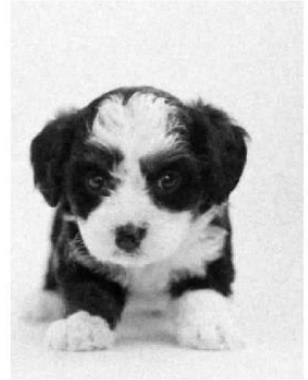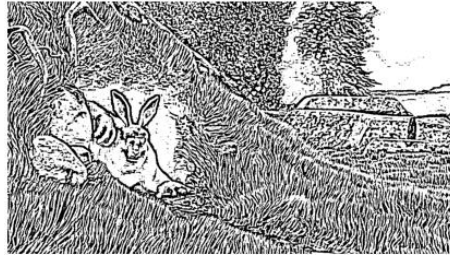

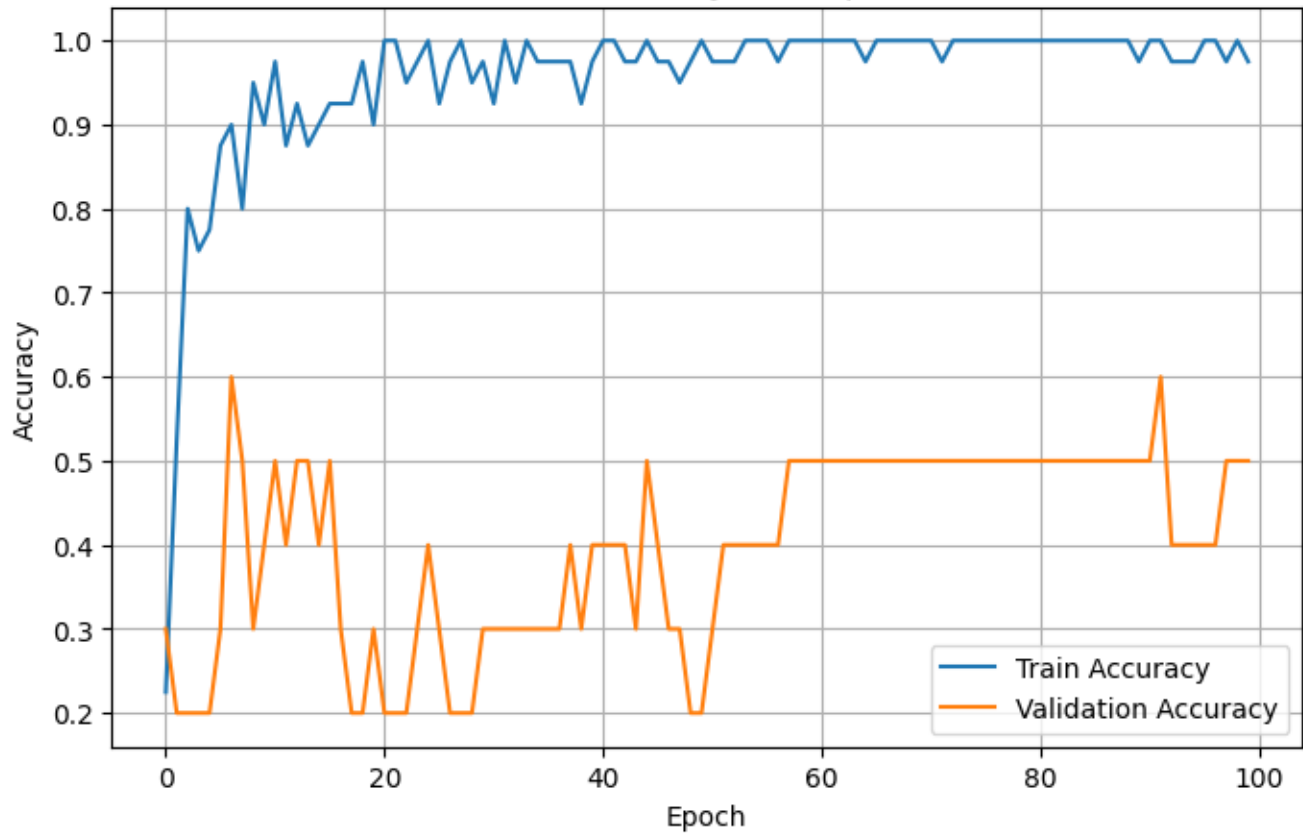Original Frame | Adaptive Threshold | Bitwise Frame
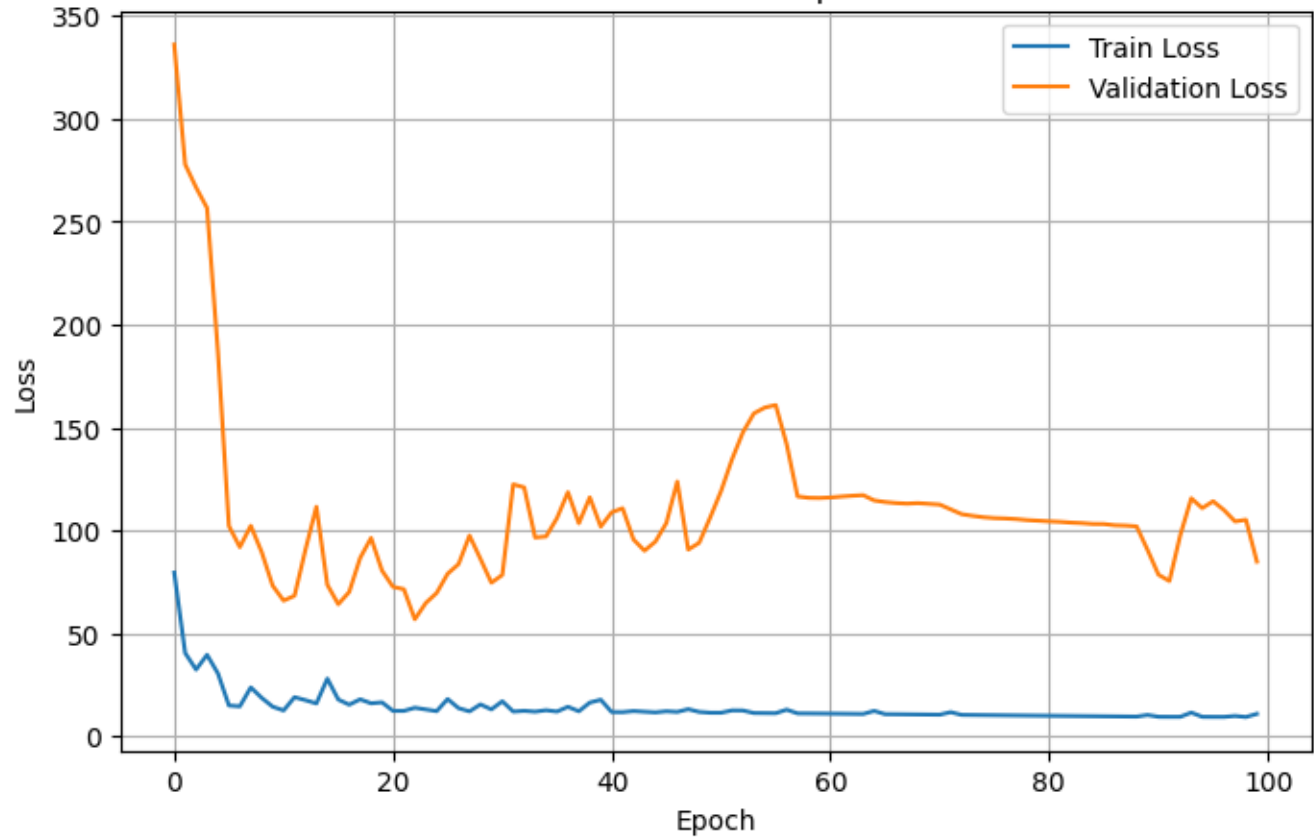

Gaussian Frame | Canny Frame

```
Median PSNR: 27.49, SSIM: 0.49, MSE: 0.00178
Wavelet PSNR: 30.60, SSIM: 0.82, MSE: 0.00087
Total frames extracted: 132
```

Model Accuracy Over Epochs

Model Loss Over Epochs

```
Best Model Accuracy on Test Set: 60.00%
Confusion Matrix:
[[0 0 0 0 0]
 [3 0 0 0 0]
 [0 0 2 0 0]
 [0 0 0 3 0]
 [0 0 0 1 1]]
Classification Report:
               precision    recall  f1-score   support

   Basketball       0.00      0.00      0.00         0
       Biking       0.00      0.00      0.00         3
 PlayingGuitar       1.00      1.00      1.00         2
       Typing       0.75      1.00      0.86         3
     JumpRope       1.00      0.50      0.67         2

     accuracy                           0.60        10
    macro avg       0.55      0.50      0.50        10
 weighted avg       0.62      0.60      0.59        10
```